



Safety data sheet


This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

Maston - Chalk Spray 2500101-2500108

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier:** Maston - Chalk Spray
2500101-2500108
- Other means of identification:**
Tuotenumero/Product numbers:
2500101, 2500102, 2500104, 2500105, 2500107, 2500108,
2500101-EU, 2500102-EU, 2500104-EU, 2500105-EU, 2500107-EU, 2500108-EU
UFI: RPQ0-20QK-G00N-GX3T
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
Relevant uses: Paint
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Details of the supplier of the safety data sheet:**
Maston Oy
Teollisuustie 10
FI 02880 Veikkola - Finland
Phone: +358 20 7188 580
maston@maston.fi
www.maston.fi
- 1.4 Emergency telephone number:** Myrkytystietokeskus (Giftinformationcentralen) PL 340 00029 HUS FINLAND +358(0)9471977

SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture:**
CLP Regulation (EC) No 1272/2008:
Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.
Aerosol 1: Pressurised container: May burst if heated., H229
Aerosol 1: Flammable aerosols, Category 1, H222
- 2.2 Label elements:**
CLP Regulation (EC) No 1272/2008:
Danger
- 
- Hazard statements:**
Aerosol 1: H229 - Pressurised container: May burst if heated.
Aerosol 1: H222 - Extremely flammable aerosol.
- Precautionary statements:**
P102: Keep out of reach of children.
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211: Do not spray on an open flame or other ignition source.
P251: Do not pierce or burn, even after use.
P260: Do not breathe spray.
P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F
- Supplementary information:**
EUH211: Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
UFI: RPQ0-20QK-G00N-GX3T
- 2.3 Other hazards:**
Product does not meet PBT/vPvB criteria
Endocrine-disrupting properties: The product does not meet the criteria.
DK MAL code 3-1

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS **

** Changes with regards to the previous version

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Maston - Chalk Spray
2500101-2500108**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS ** (continued)****3.1 Substance:**

Non-applicable

3.2 Mixture:**Chemical description:** Aerosol**Components:**

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

| Identification | Chemical name/Classification | Concentration |
|---|--|-------------------------------|
| CAS: 115-10-6 EC: 204-065-8 Index: 603-019-00-8 REACH: 01-2119472128-37-XXXX | Dimethyl ether⁽¹⁾ Regulation 1272/2008 Flam. Gas 1A: H220; Press. Gas: H280 - Danger | ATP CLP00 40 - <60 % |
| CAS: 13463-67-7 EC: 236-675-5 Index: 022-006-00-2 REACH: 01-2119489379-17-XXXX | Titanium dioxide (aerodynamic diameter ≤ 10 µm)⁽²⁾ Regulation 1272/2008 Carc. 2: H351 - Warning | ATP ATP14 1 - <2,5 % |
| CAS: 111-76-2 EC: 203-905-0 Index: 603-014-00-0 REACH: 01-2119475108-36-XXXX | 2-butoxyethanol⁽²⁾ Regulation 1272/2008 Acute Tox. 3: H331; Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315 - Danger | ATP ATP18 0,25 - <0,5 % |
| CAS: 141-43-5 EC: 205-483-3 Index: 603-030-00-8 REACH: 01-2119486455-28-XXXX | 2-aminoethanol⁽¹⁾ Regulation 1272/2008 Acute Tox. 4: H302+H312+H332; Skin Corr. 1B: H314 - Danger | ATP CLP00 0,0005 - <0,05 % |

⁽¹⁾ Substance with a Union workplace exposure limit⁽²⁾ Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

Other information:

| Identification | Specific concentration limit |
|--|-------------------------------|
| 2-aminoethanol CAS: 141-43-5 EC: 205-483-3 | % (w/w) ≥ 5: STOT SE 3 - H335 |

Acute toxicity estimate for the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or as determined in accordance with Annex I to that Regulation:

| Identification | Acute toxicity | Genus |
|---|-----------------|----------------|
| 2-butoxyethanol CAS: 111-76-2 EC: 203-905-0 | LD50 oral | Non-applicable |
| | LD50 dermal | Non-applicable |
| | LC50 inhalation | 3 mg/L (ATEi) |

** Changes with regards to the previous version

SECTION 4: FIRST AID MEASURES**4.1 Description of first aid measures:**

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

This product is not classified as hazardous through inhalation. However, in case of intoxication symptoms it is recommended to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

By skin contact:

This product is not classified as hazardous when in contact with the skin. However, in case of skin contact it is recommended to remove contaminated clothes and shoes, rinse the skin or if necessary shower the affected person thoroughly with cold water and neutral soap. In case of serious reaction consult a doctor.

By eye contact:

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SECTION 4: FIRST AID MEASURES (continued)

Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case removal could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS for the product.

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

4.2 Most important symptoms and effects, both acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of any immediate medical attention and special treatment needed:

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO₂).

Unsuitable extinguishing media:

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and ground water.

6.3 Methods and material for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

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SECTION 7: HANDLING AND STORAGE (continued)

7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, handling and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

- Minimum Temp.: 5 °C
- Maximum Temp.: 50 °C
- Maximum time: 60 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

Directive (EU) 2000/39, Directive 2004/37/EC, Directive (EU) 2006/15, Directive (EU) 2009/161, Directive (EU) 2017/164, Directive (EU) 2019/1831:

| Identification | | Occupational exposure limits | | |
|--|--------------|------------------------------|------------------------|--|
| 2-butoxyethanol CAS: 111-76-2 EC: 203-905-0 | IOELV (8h) | 20 ppm | 98 mg/m ³ | |
| | IOELV (STEL) | 50 ppm | 246 mg/m ³ | |
| Dimethyl ether CAS: 115-10-6 EC: 204-065-8 | IOELV (8h) | 1000 ppm | 1920 mg/m ³ | |
| | IOELV (STEL) | | | |
| 2-aminoethanol CAS: 141-43-5 EC: 205-483-3 | IOELV (8h) | 1 ppm | 2,5 mg/m ³ | |
| | IOELV (STEL) | 3 ppm | 7,6 mg/m ³ | |

DNEL (Workers):

| Identification | | Short exposure | | Long exposure | |
|---|------------|------------------------|-----------------------|------------------------|------------------------|
| | | Systemic | Local | Systemic | Local |
| Dimethyl ether CAS: 115-10-6 EC: 204-065-8 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 1894 mg/m ³ | Non-applicable |
| 2-butoxyethanol CAS: 111-76-2 EC: 203-905-0 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | 89 mg/kg | Non-applicable | 125 mg/kg | Non-applicable |
| | Inhalation | 1091 mg/m ³ | 246 mg/m ³ | 98 mg/m ³ | Non-applicable |
| 2-aminoethanol CAS: 141-43-5 EC: 205-483-3 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 3 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 1 mg/m ³ | 0,51 mg/m ³ |

DNEL (General population):

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

| Identification | | Short exposure | | Long exposure | |
|---|------------|-----------------------|-----------------------|------------------------|------------------------|
| | | Systemic | Local | Systemic | Local |
| Dimethyl ether CAS: 115-10-6 EC: 204-065-8 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 471 mg/m ³ | Non-applicable |
| 2-butoxyethanol CAS: 111-76-2 EC: 203-905-0 | Oral | Non-applicable | Non-applicable | 6,3 mg/kg | Non-applicable |
| | Dermal | 89 mg/kg | Non-applicable | 75 mg/kg | Non-applicable |
| | Inhalation | 426 mg/m ³ | 147 mg/m ³ | 59 mg/m ³ | Non-applicable |
| 2-aminoethanol CAS: 141-43-5 EC: 205-483-3 | Oral | Non-applicable | Non-applicable | 1,5 mg/kg | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 1,5 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 0,18 mg/m ³ | 0,28 mg/m ³ |

PNEC:



| Identification | | | | |
|---|--------------|----------------|-------------------------|-------------|
| Dimethyl ether CAS: 115-10-6 EC: 204-065-8 | STP | 160 mg/L | Fresh water | 0,155 mg/L |
| | Soil | 0,045 mg/kg | Marine water | 0,016 mg/L |
| | Intermittent | 1,549 mg/L | Sediment (Fresh water) | 0,681 mg/kg |
| | Oral | Non-applicable | Sediment (Marine water) | 0,069 mg/kg |
| 2-butoxyethanol CAS: 111-76-2 EC: 203-905-0 | STP | 463 mg/L | Fresh water | 8,8 mg/L |
| | Soil | 2,33 mg/kg | Marine water | 0,88 mg/L |
| | Intermittent | 26,4 mg/L | Sediment (Fresh water) | 34,6 mg/kg |
| | Oral | 0,02 g/kg | Sediment (Marine water) | 3,46 mg/kg |
| 2-aminoethanol CAS: 141-43-5 EC: 205-483-3 | STP | 100 mg/L | Fresh water | 0,07 mg/L |
| | Soil | 1,29 mg/kg | Marine water | 0,007 mg/L |
| | Intermittent | 0,028 mg/L | Sediment (Fresh water) | 0,357 mg/kg |
| | Oral | Non-applicable | Sediment (Marine water) | 0,036 mg/kg |

8.2 Exposure controls:



A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|--|---------------------------|--|---------------------|--|
|  Compulsory use of face mask | Filter mask for particles |  CAT III | EN 149:2001+A1:2009 | Replace when an increase in resistance to breathing is observed. |

C.- Specific protection for the hands

| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|--|--|--|-------------------|--|
|  Mandatory hand protection | Chemical protective gloves (Material: Nitrile, Breakthrough time: > 480 min, Thickness: 0.4 mm) |  CAT III | EN ISO 21420:2020 | Replace the gloves at any sign of deterioration. |



As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection





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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|--|---|---|---------------------------------|---|
|  Mandatory face protection | Panoramic glasses against splash/projections. |  | EN 166:2002 EN ISO 4007:2018 | Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. |

E.- Body protection

| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|---|---|---|--|---|
|  Mandatory complete body protection | Antistatic and fireproof protective clothing |  | EN 1149-1:2006 EN 1149-2:1997 EN 1149-3:2004 EN 168:2002 EN ISO 14116:2015 EN 1149-5:2018 | Limited protection against flames. |
|  Mandatory foot protection | Safety footwear with antistatic and heat resistant properties |  | EN ISO 13287:2020 EN ISO 20345:2011 | Replace boots at any sign of deterioration. |

F.- Additional emergency measures

| Emergency measure | Standards | Emergency measure | Standards |
|--|---|---|--|
|  Emergency shower | ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011 |  Eyewash stations | DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011 |

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:

| | |
|---------------------------|---------------------------------------|
| V.O.C. (Supply): | 40,67 % weight |
| V.O.C. density at 20 °C: | 355,48 kg/m ³ (355,48 g/L) |
| Average carbon number: | 5,53 |
| Average molecular weight: | 111,57 g/mol |

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

| | |
|--------------------------|--|
| Physical state at 20 °C: | Aerosol |
| Appearance: | Not available |
| Colour: | According to the markings on the package |
| Odour: | Not available |
| Odour threshold: | Non-applicable * |

Volatility:

| | |
|--|---------------------------|
| Boiling point at atmospheric pressure: | -25 - 388 °C (Propellant) |
| Vapour pressure at 20 °C: | 480 Pa |
| Vapour pressure at 50 °C: | 479,96 Pa (0,48 kPa) |
| Evaporation rate at 20 °C: | Non-applicable * |

Product description:

*Not relevant due to the nature of the product, not providing information property of its hazards.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

| | |
|--|-----------------------|
| Density at 20 °C: | 874 kg/m ³ |
| Relative density at 20 °C: | 0,874 |
| Dynamic viscosity at 20 °C: | Non-applicable * |
| Kinematic viscosity at 20 °C: | Non-applicable * |
| Kinematic viscosity at 40 °C: | Non-applicable * |
| Concentration: | Non-applicable * |
| pH: | Non-applicable * |
| Vapour density at 20 °C: | Non-applicable * |
| Partition coefficient n-octanol/water 20 °C: | Non-applicable * |
| Solubility in water at 20 °C: | Non-applicable * |
| Solubility properties: | Non-applicable * |
| Decomposition temperature: | Non-applicable * |
| Melting point/freezing point: | Non-applicable * |
| Recipient pressure: | 480 Pa (0 bar) |
| Flammability: | |
| Flash Point: | Non-applicable |
| Flammability (solid, gas): | Non-applicable * |
| Autoignition temperature: | 240 °C (Propellant) |
| Lower flammability limit: | 0,8 % Volume |
| Upper flammability limit: | 12 % Volume |
| Particle characteristics: | |
| Median equivalent diameter: | Non-applicable |

9.2 Other information:

Information with regard to physical hazard classes:

| | |
|--|------------------|
| Explosive properties: | Non-applicable * |
| Oxidising properties: | Non-applicable * |
| Corrosive to metals: | Non-applicable * |
| Heat of combustion: | Non-applicable * |
| Aerosols-total percentage (by mass) of flammable components: | Non-applicable * |

Other safety characteristics:

| | |
|---------------------------|------------------|
| Surface tension at 20 °C: | Non-applicable * |
| Refraction index: | Non-applicable * |

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

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SECTION 10: STABILITY AND REACTIVITY (continued)

| Shock and friction | Contact with air | Increase in temperature | Sunlight | Humidity |
|--------------------|------------------|-------------------------|---------------------|----------------|
| Not applicable | Not applicable | Risk of combustion | Avoid direct impact | Not applicable |

10.5 Incompatible materials:

| Acids | Water | Oxidising materials | Combustible materials | Others |
|--------------------|----------------|---------------------|-----------------------|-------------------------------|
| Avoid strong acids | Not applicable | Avoid direct impact | Not applicable | Avoid alkalis or strong bases |

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION **

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:

The experimental information related to the toxicological properties of the product itself is not available

Contains glycols. It is recommended not to breathe the vapours for prolonged periods of time due to the possibility of effects that are hazardous to the health .

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for skin contact. For more information see section 3.
- Contact with the eyes: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with carcinogenic effects. For more information see section 3.
IARC: 2-butoxyethanol (3); Titanium dioxide (aerodynamic diameter ≤ 10 µm) (2B)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

** Changes with regards to the previous version



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SECTION 11: TOXICOLOGICAL INFORMATION ** (continued)

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

Other information:

CAS 13463-67-7 Titanium dioxide (aerodynamic diameter ≤ 10 µm): The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter ≤ 10 µm

Specific toxicology information on the substances:

| Identification | Acute toxicity | | Genus |
|---|-----------------|------------------|--------|
| | Route | Toxicity | |
| Dimethyl ether CAS: 115-10-6 EC: 204-065-8 | LD50 oral | >2000 mg/kg | |
| | LD50 dermal | >2000 mg/kg | |
| | LC50 inhalation | 308,5 mg/L (4 h) | Rat |
| Titanium dioxide (aerodynamic diameter ≤ 10 µm) CAS: 13463-67-7 EC: 236-675-5 | LD50 oral | 10000 mg/kg | Rat |
| | LD50 dermal | 10000 mg/kg | Rabbit |
| | LC50 inhalation | >5 mg/L | |
| 2-butoxyethanol CAS: 111-76-2 EC: 203-905-0 | LD50 oral | 1200 mg/kg | Rat |
| | LD50 dermal | 3000 mg/kg | Rabbit |
| | LC50 inhalation | 3 mg/L (ATEi) | |
| 2-aminoethanol CAS: 141-43-5 EC: 205-483-3 | LD50 oral | 1089 mg/kg | Rat |
| | LD50 dermal | 1100 mg/kg | |
| | LC50 inhalation | >20 mg/L | |

Acute Toxicity Estimate (ATE mix):

| ATE mix | | Ingredient(s) of unknown toxicity |
|------------|---------------------------------------|-----------------------------------|
| Oral | >2000 mg/kg (Calculation method) | Non-applicable |
| Dermal | >2000 mg/kg (Calculation method) | Non-applicable |
| Inhalation | 937,5 mg/L (4 h) (Calculation method) | 0 % |

11.2 Information on other hazards:

Endocrine disrupting properties

Endocrine-disrupting properties: The product does not meet the criteria.

Other information

Non-applicable

** Changes with regards to the previous version

SECTION 12: ECOLOGICAL INFORMATION **

The experimental information related to the eco-toxicological properties of the product itself is not available

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

12.1 Toxicity:

Acute toxicity:

| Identification | Concentration | | Species | Genus |
|---|---------------|------------------|---------------------------------|------------|
| | Route | Toxicity | | |
| 2-butoxyethanol CAS: 111-76-2 EC: 203-905-0 | LC50 | 1490 mg/L (96 h) | Lepomis macrochirus | Fish |
| | EC50 | 1815 mg/L (48 h) | Daphnia magna | Crustacean |
| | EC50 | 911 mg/L (72 h) | Pseudokirchneriella subcapitata | Algae |
| 2-aminoethanol CAS: 141-43-5 EC: 205-483-3 | LC50 | 349 mg/L (96 h) | Cyprinus carpio | Fish |
| | EC50 | 65 mg/L (48 h) | Daphnia magna | Crustacean |
| | EC50 | 22 mg/L (72 h) | Scenedesmus subspicatus | Algae |

** Changes with regards to the previous version

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SECTION 12: ECOLOGICAL INFORMATION ** (continued)

Chronic toxicity:

| Identification | Concentration | | Species | Genus |
|--|---------------|-----------|-----------------|------------|
| 2-butoxyethanol CAS: 111-76-2 EC: 203-905-0 | NOEC | 100 mg/L | Danio rerio | Fish |
| | NOEC | 100 mg/L | Daphnia magna | Crustacean |
| 2-aminoethanol CAS: 141-43-5 EC: 205-483-3 | NOEC | 1,24 mg/L | Oryzias latipes | Fish |
| | NOEC | 0,85 mg/L | Daphnia magna | Crustacean |

12.2 Persistence and degradability:

Substance-specific information:

| Identification | Degradability | | Biodegradability | |
|--|---|----------------|------------------|---------------|
| | 2-butoxyethanol CAS: 111-76-2 EC: 203-905-0 | BOD5 | 0,71 g O2/g | Concentration |
| COD | | 2,2 g O2/g | Period | 14 days |
| BOD5/COD | | 0,32 | % Biodegradable | 96 % |
| 2-aminoethanol CAS: 141-43-5 EC: 205-483-3 | BOD5 | Non-applicable | Concentration | 20 mg/L |
| | COD | Non-applicable | Period | 21 days |
| | BOD5/COD | Non-applicable | % Biodegradable | 90 % |

12.3 Bioaccumulative potential:

Substance-specific information:

| Identification | Bioaccumulation potential | |
|---|---------------------------|-------|
| 2-butoxyethanol CAS: 111-76-2 EC: 203-905-0 | BCF | 3 |
| | Pow Log | 0.83 |
| | Potential | Low |
| 2-aminoethanol CAS: 141-43-5 EC: 205-483-3 | BCF | 3 |
| | Pow Log | -1.31 |
| | Potential | Low |

12.4 Mobility in soil:

| Identification | Absorption/desorption | | Volatility | |
|---|-----------------------|----------------------|------------|---------------------------------|
| Dimethyl ether CAS: 115-10-6 EC: 204-065-8 | Koc | Non-applicable | Henry | Non-applicable |
| | Conclusion | Non-applicable | Dry soil | Non-applicable |
| | Surface tension | 1,136E-2 N/m (25 °C) | Moist soil | Non-applicable |
| 2-butoxyethanol CAS: 111-76-2 EC: 203-905-0 | Koc | 8 | Henry | 1,621E-1 Pa·m ³ /mol |
| | Conclusion | Very High | Dry soil | No |
| | Surface tension | 2,729E-2 N/m (25 °C) | Moist soil | Yes |
| 2-aminoethanol CAS: 141-43-5 EC: 205-483-3 | Koc | 0.27 | Henry | 3,7E-5 Pa·m ³ /mol |
| | Conclusion | Very High | Dry soil | No |
| | Surface tension | 5,025E-2 N/m (25 °C) | Moist soil | No |

12.5 Results of PBT and vPvB assessment:

Product does not meet PBT/vPvB criteria

12.6 Endocrine disrupting properties:

Endocrine-disrupting properties: The product does not meet the criteria.

12.7 Other adverse effects:

Not described

** Changes with regards to the previous version

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

| Code | Description | Waste class (Regulation (EU) No 1357/2014) |
|-----------|---|--|
| 16 05 04* | gases in pressure containers (including halons) containing hazardous substances | Dangerous |

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SECTION 13: DISPOSAL CONSIDERATIONS (continued)

Type of waste (Regulation (EU) No 1357/2014):

HP3 Flammable

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2023 and RID 2023:



- 14.1 UN number or ID number:** UN1950
- 14.2 UN proper shipping name:** AEROSOLS
- 14.3 Transport hazard class(es):** 2
Labels: 2.1
- 14.4 Packing group:** N/A
- 14.5 Environmental hazards:** No
- 14.6 Special precautions for user**
Special regulations: 190, 327, 344, 625
Tunnel restriction code: D
Physico-Chemical properties: see section 9
Limited quantities: 1 L
- 14.7 Maritime transport in bulk according to IMO instruments:** Non-applicable

Transport of dangerous goods by sea:

With regard to IMDG 40-20:



- 14.1 UN number or ID number:** UN1950
- 14.2 UN proper shipping name:** AEROSOLS
- 14.3 Transport hazard class(es):** 2
Labels: 2.1
- 14.4 Packing group:** N/A
- 14.5 Marine pollutant:** No
- 14.6 Special precautions for user**
Special regulations: 63, 959, 190, 277, 327, 344
EmS Codes: F-D, S-U
Physico-Chemical properties: see section 9
Limited quantities: 1 L
Segregation group: Non-applicable
- 14.7 Maritime transport in bulk according to IMO instruments:** Non-applicable

Transport of dangerous goods by air:

With regard to IATA/ICAO 2023:

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SECTION 14: TRANSPORT INFORMATION (continued)



- 14.1 UN number or ID number:** UN1950
14.2 UN proper shipping name: AEROSOLS
14.3 Transport hazard class(es): 2
 Labels: 2.1
14.4 Packing group: N/A
14.5 Environmental hazards: No
14.6 Special precautions for user
 Physico-Chemical properties: see section 9
14.7 Maritime transport in bulk according to IMO instruments: Non-applicable

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

Regulation (EC) No 528/2012: contains a preservative to protect the initial properties of the treated article. Contains 3-iodo-2-propynyl Butylcarbamate, bronopol (INN), 1,2-benzisothiazol-3(2H)-one, Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1), 2-methylisothiazol-3(2H)-one.

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Non-applicable

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

Seveso III:

| Section | Description | Lower-tier requirements | Upper-tier requirements |
|---------|--------------------|-------------------------|-------------------------|
| P3a | FLAMMABLE AEROSOLS | 150 | 500 |

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc):

Shall not be used in:

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- tricks and jokes,
- games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

Contains Octamethylcyclotetrasiloxane. 1. | Shall not be placed on the market in wash-off cosmetic products in a concentration equal to or greater than 0,1 % by weight of either substance, after 31 January 2020. | 2. | For the purposes of this entry, "wash-off cosmetic products" means cosmetic products as defined in Article 2(1)(a) of Regulation (EC) No 1223/2009 that, under normal conditions of use, are washed off with water after application.'

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The product could be affected by sectorial legislation

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

- CONTINUED ON NEXT PAGE -



Safety data sheet

This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

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SECTION 16: OTHER INFORMATION (continued)

COMMISSION REGULATION (EU) 2020/878

COMPOSITION/INFORMATION ON INGREDIENTS (SECTION 3, SECTION 11, SECTION 12):

- New declared substances
 - 2-aminoethanol (141-43-5)
 - Titanium dioxide (aerodynamic diameter $\leq 10 \mu\text{m}$) (13463-67-7)
- Removed substances
 - 2-aminoethanol (141-43-5)

Texts of the legislative phrases mentioned in section 2:

H229: Pressurised container: May burst if heated.

H222: Extremely flammable aerosol.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

CLP Regulation (EC) No 1272/2008:

Acute Tox. 3: H331 - Toxic if inhaled.

Acute Tox. 4: H302 - Harmful if swallowed.

Acute Tox. 4: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled.

Carc. 2: H351 - Suspected of causing cancer (Inhalation).

Eye Irrit. 2: H319 - Causes serious eye irritation.

Flam. Gas 1A: H220 - Extremely flammable gas.

Press. Gas: H280 - Contains gas under pressure, may explode if heated.

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.

Skin Irrit. 2: H315 - Causes skin irritation.

Classification procedure:

Aerosol 1: Calculation method

Aerosol 1: Calculation method

Advice related to training:

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

<http://echa.europa.eu>

<http://eur-lex.europa.eu>

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

LC50: Lethal Concentration 50

EC50: Effective concentration 50

LogPOW: Octanolwater partition coefficient

Koc: Partition coefficient of organic carbon

UFI: unique formula identifier

IARC: International Agency for Research on Cancer

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -